Recreational Use Attainability Analysis

Cover Sheet

Water Body Name: Indian Creek	
Water Body Identification #: 1591	
Completed UAA Checklist: Pre-Field Preparatory Data Sheet Maps with actual survey sites marked Data Sheet A Data Sheet B – 3 of 3 pages for each site Number of Sites:3 Data Sheet C (if applicable) Number of Interviews: Photographs Quantities Upstream3 Downstream3 Other6	
I, the undersigned, hereby affirm to the best of my ki is true and accurate.	nowledge, that all information reported in this UAA
Signed: John Roberts Printed Name: John Roberts Organization: Tetra tech Inc.	

<u>Pre-Field Preparatory Data Sheet</u> <u>for Recreational Use Stream Surveys</u>

Water Body Name: (from USGS 7.5' quad) Indian C	reeK
8-digit HUC:	Missouri Water Body Identification (WBID) #: 1591
County: Texas	Wissouri Water Body Identification (WBID) #: 1591
Upstream Legal Description:	
Downstream Legal Description:	
Discharger Facility Name(s):	
Discharger Permit Number(s):	
Weather Conditions for Past 7 days:	
Ho	o +

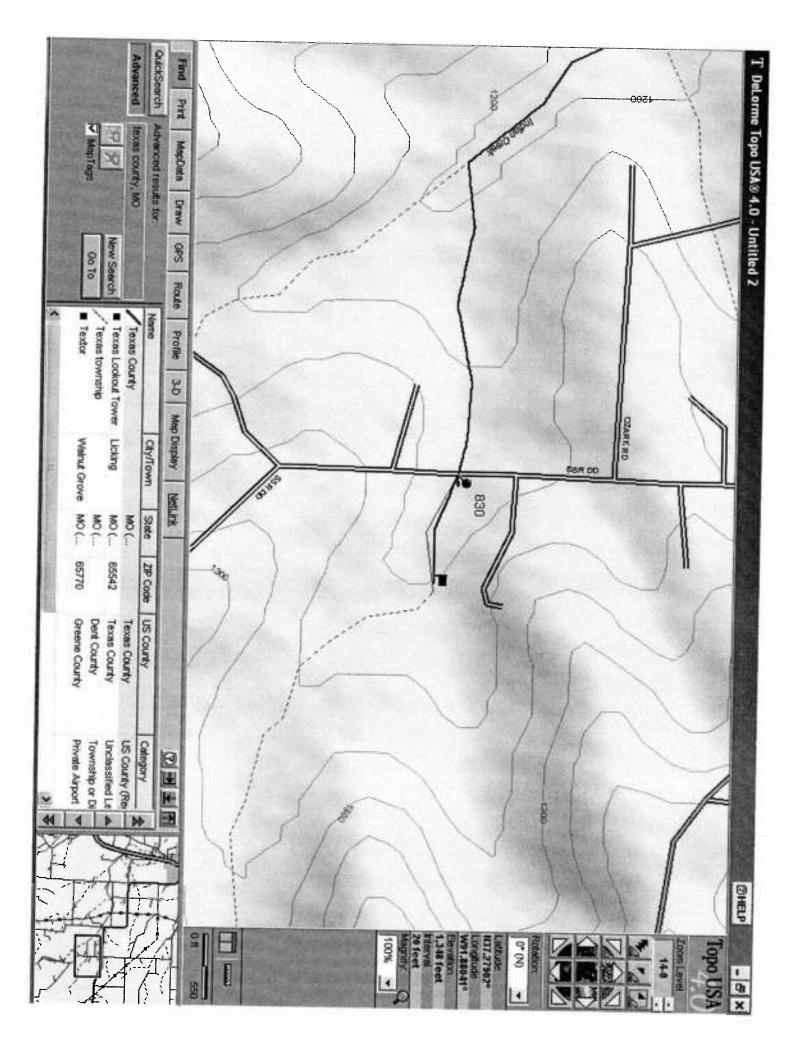
Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest.

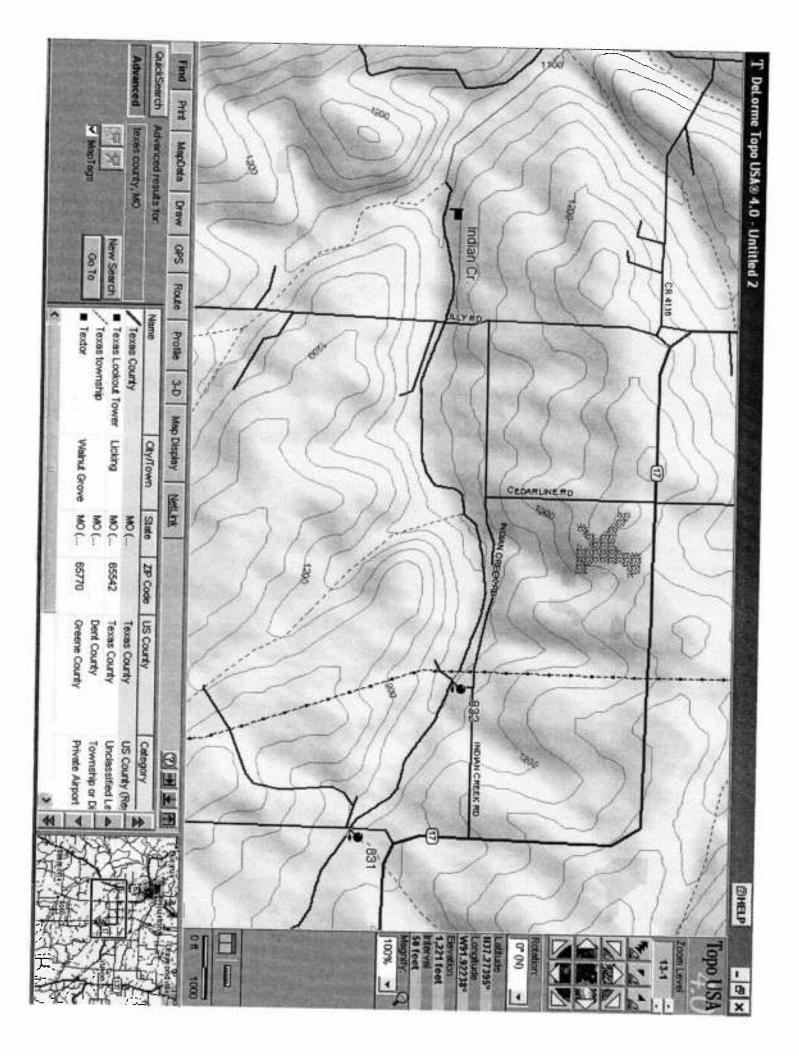
WBID	#_159_	<u> </u>	
Date:	/	/	

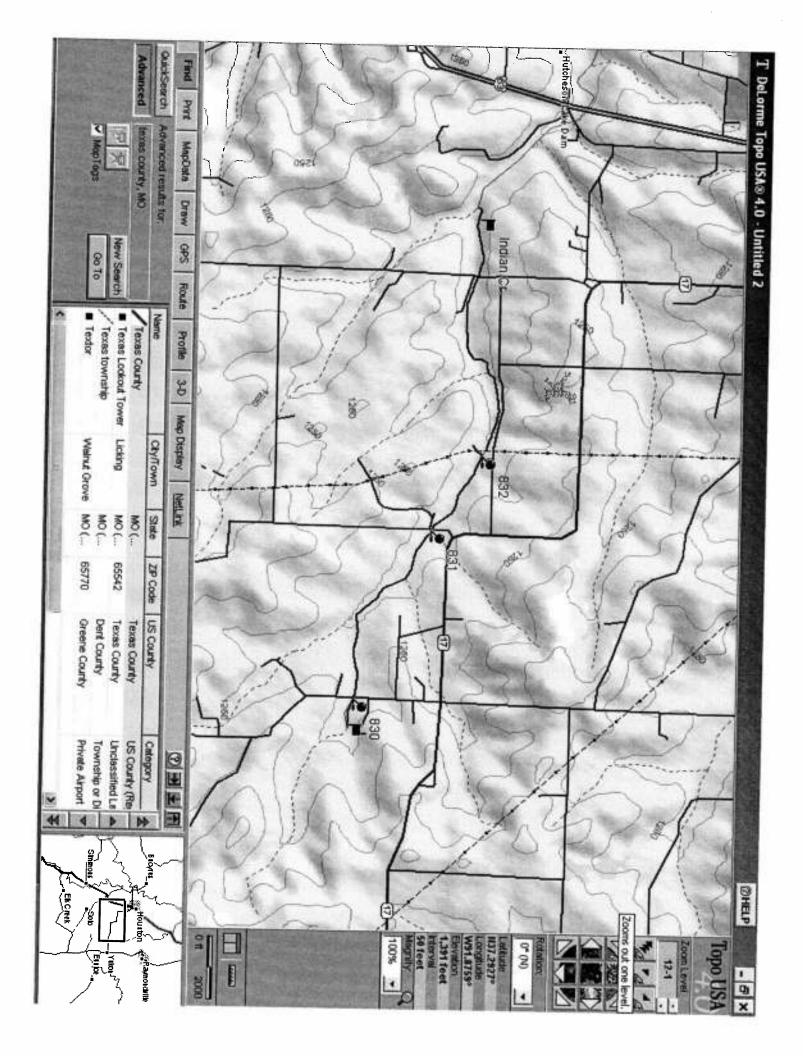
Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

Water Body Name: Indian Creek
THE TOWN CITCA
WBID #: 1591
Upstream Coordinates:
(WGS 84, ddd.ddddd) (830) 37,28030 - 91,94946
Downstream Coordinates:
(WGS 84, ddd.ddddd) (832) 37, 27070, - 91, 90378
Current Weather Conditions: Clear, Hot
Number of Sites Evaluated: 3
Name(s) of Surveyor(s):
Chad Barbour John Roberts







WBID # 1591 Site # 830

Date: 07/16/2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization - 1 of 3

(A separate Data Sheet B must be completed for each site)

Latitude (ddd.dddd):	37. 28030		Arrival Time:		
Longitude (ddd.dddd)	Cal 4HAID		0800		
Photo Ids: Upstream:	N 60	ACC: 36FT.			
•	06.30	Downstream: 0651	Other:		
		652 - PATH, AGAJCULT	VAC 0653-0472	FARM AT STREAM	
rrativa Dasarintian					
AT LILLY ROAD (hossing	escribe access point to stream, r	nearby roads, landmarks, etc	.)	
	21.00				
mounding C. 1111	, t.				
s of interest.)	ons*: (Mark all that	promote or impede recreational	uses. Attach photos of evid	ence or unusual	
☐ City/county parks	<u> </u>				
	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas	☐ Campgrounds	
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	☐ Stairs/walkway	
☐ No trespass sign	☑ Fence	☐ Steep slopes	Other: ACDTCHIT	MOther: AGAICULTURE - SEE PHOTUS DE	
nan Uses Observed	LSEE PHOTO	0652	1011110010	065	
				<u> </u>	
☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing	
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting	
Hunting	☐ Trapping	☐ Fishing	None of the above		
Describe: (include numb	er of individuals recu	reating, frequency of use, photo	-documentation of evidence	of recreational uses et	
				2005, 01	
ence of Human Us	e*:				
Roads	☐ Foot paths/print	s Dock/platform	☐ Livestock Watering	□ RV / ATV Tracks	
Rope swings	☐ Camping Sites	☐ Fire pit/ring	☐ NPDES Discharge		
Other:			La INI DES Discharge	☐ Fishing Tackle	
ces of Pollution: (e.	g., trash dumping, tire	es, drainages, discharges, etc.)			
MICULTUMG- SEE					

QL; 07-15-06 Joh Joet

	Data	Sheet B - Site Cha	racterization – 2	of 3	
ream Mor Upstream	View Physical Dim	ensions: 0.4 <i>5,</i> 0.4	3. 0.44		
	Distance from access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (n
☐ Riffle					mus Depth (II
□ Run					
□ Pool	0	14.5	6	0.44	
☐ Flow	Present?	☑No	Velocity (ft/sec):	0.44	0.45
☐ Riffle	access point (m)	Width (m)	Length (m)	Avg. Depth (m)	Max Depth (m
□ Riffle	access point (m)	wiath (m)	Length (m)	Avg. Depth (m)	Max Depth (m)
□ Run					
···	0	14.5			
Pool			5 Valority (0/)	0.29	0,30
☑ Fool □ Flow			Velocity (ft/sec):		
□ Flow					
□ Flow strate*: (1	These values should add t	ip to 100%.)			
□ Flow strate*: (1	These values should add to Cobble 50 % Gra	up to 100%.) ivel	nd % S	Silt % Mud/Cl	av I 46 % Redro
□ Flow strate*: (7 5 % (These values should add to Cobble 50 % Graation*: (Note amount of	wel % Sar			ay 45 % Bedro

☐ Chemical

Fine sediments

☐ Gray

☐ Foam

☑ None

☐ Milky

□ None

☑ None

☐ Other:

☐ Other:

☐ Other:

 \square Other:

Odor:

Color:

Bottom Deposit:

Surface Deposit:

☐ Sewage

☑ Clear

□ Sludge

□ Oil

☐ Musky

☐ Green

□ Solids

☐ Scum

^{*}This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

WBID	#	1	591		_ Site # _	830	
Date	Δ2	1	11	1	24/		

Data Sheet B - Site Characterization – 3 of 3

Comments: Please describe any departures from protocol and the reasons for departure (e.g., unanticipated unique local conditions, problems in measuring, site relocation).
None

WBID #1541	Site #	<u>8</u> 30
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Date: 07/16 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C – Interviews
(Make additional copies as necessary for multi-

	(Make additio	onal copies as neces	ssary for multiple inter	rviews)
1. Do you live If so, how	in the area?	Yes DNo lived here?	IF E	
2. Have you pe	rsonally used th	is water body for rethat apply:	ecreation since 1975?	□ Yes ☑ No
	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	Other:
•	G = 1 - 5 times	5 times per year sper year	lease describe: _ N 0 N	É
	erved others usi se check ALL tl	ng this water body nat apply:	for recreation since 19	975? □ Yes ☑ No
Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	Other: rinow transing
How often G G G	More than $1 - 5$ times	ved it being used for times per year per year time per year – ple		
4. Additional Cor	mments: <u>T Ca</u>	TCHING MINNOW		
Contact Informati	ion (if willing to	provide):		

Name: RECHARD BEST

Address: 6340 LILLY RO. HOV. 70.~

Telephone #: 967-2465

WBID # 1511 Site # 831

Date: 07 / 16 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization - 1 of 3

(A separate Data Sheet B must be completed for each site)

rounding Conditions*: s of interest.) □ City/county parks □ □ Boating accesses □	Location: (De	Downstream: 0655 0656-FEA scribe access point to stream, promote or impede recreationa MDC conservation lands National forests	nearby roads, landmarks, etc	lence or unusual Campgrounds
rrative Description of L Trounding Conditions*: s of interest.) City/county parks Boating accesses No trespass sign	Cocation: (De	Downstream: 0655 0656-FEA scribe access point to stream, promote or impede recreationa MDC conservation lands National forests	Other: Other:	lence or unusual Campgrounds
rrative Description of L AT POAD CROSS rounding Conditions*: s of interest.) City/county parks Boating accesses No trespass sign	Cocation: (De	olse-Fea	nearby roads, landmarks, etc	lence or unusual Campgrounds
rounding Conditions*: s of interest.) City/county parks Boating accesses No trespass sign	(Mark all that p	oromote or impede recreationa MDC conservation lands National forests	nearby roads, landmarks, etc	lence or unusual Campgrounds
rounding Conditions*: s of interest.) City/county parks Boating accesses No trespass sign	(Mark all that p	oromote or impede recreationa ☐ MDC conservation lands ☐ National forests	al uses. Attach photos of evid	lence or unusual Campgrounds
rounding Conditions*: s of interest.) City/county parks Boating accesses No trespass sign	(Mark all that p	oromote or impede recreationa ☐ MDC conservation lands ☐ National forests	al uses. Attach photos of evid	lence or unusual Campgrounds
☐ City/county parks ☐ ☐ Boating accesses ☐ ☐ No trespass sign ☑	Playgrounds State parks	☐ MDC conservation lands ☐ National forests	☐ Urban areas	☐ Campgrounds
☐ City/county parks ☐ ☐ Boating accesses ☐ ☐ No trespass sign ☑	Playgrounds State parks	☐ MDC conservation lands ☐ National forests	☐ Urban areas	☐ Campgrounds
☐ City/county parks ☐ ☐ Boating accesses ☐ ☐ No trespass sign ☑	Playgrounds State parks	☐ MDC conservation lands ☐ National forests	☐ Urban areas	☐ Campgrounds
☐ City/county parks ☐ ☐ Boating accesses ☐ ☐ No trespass sign ☑	Playgrounds State parks	☐ MDC conservation lands ☐ National forests	☐ Urban areas	☐ Campgrounds
☐ Boating accesses ☐ ☐ No trespass sign ☑	State parks	☐ National forests		
☐ No trespass sign			☐ Nature trails	
	Fence			☐ Stairs/walkway
19n Hees Obsamad*		☐ Steep slopes	MOther: AGAJCUL-	
			1611-1200	90 (61 6 H) 9 36 9 90 1
7 6 : .	01-: 1: :			
	Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
_	Kayaking	☐ Boating	☐ Wading	☐ Rafting
Hunting Describe: (include number of i	Trapping	☐ Fishing	☑ None of the above	☐ Other:
distribet (metade namber of f	maividuais recre	eating, frequency of use, photo	o-documentation of evidence	of recreational uses, et
		•		
	-			
ence of Human Use*:			can oh	oto 0657
	Foot paths/prints	□ Dock/platform	1 / 1	
i n	Camping Sites		☑ Livestock Watering	□ RV / ATV Tracks
Other:	- mp mg oites	☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
	· · · · · · · · · · · · · · · · · · ·			
ces of Pollution: (e.g., tras	sh dumping, tire	s, drainages discharges etc.)	-	
MICULTUPE SEE PHO	0705 0655	4 0656		

	16 / 2006						4
	Dat	a Sheet B - Site Ch	aracterization – 2	of 3			
eam Mor	phology:						
Upstream	View Physical Din	nensions: 0.32 0.	12, 0.36~				
	Distance from access point (m)	Width (m)	Length (m)	Avg.	Depth (m)	Max	Depth (m)
☐ Riffle							1 ()
□ Run							
☑ Pool	7	5	-7	() 2	, 5		
□ Flow	Present?	□/No	Velocity (ft/sec):	0.3		0.0	42
□ Flow		□/No	Velocity (ft/sec):	Anta Fen	vcep		
□ Flow	Present?	Dimensions: *- Vxs	Velocity (ft/sec):	Anta Fen			부고 Depth (m)
☐ Flow Downstrea ☐ Riffle	Present?	Dimensions: *- Vxs	Velocity (ft/sec):	Anta Fen	vcep		
□ Flow Downstrea	Present?	Dimensions: *- Vxs Width (m)	Velocity (ft/sec): OAL ESTIMATE -/ Length (m)	Anta Fen	vcep		
☐ Flow Downstrea ☐ Riffle ☐ Run	Present?	Dimensions: *- Vxs Width (m)	Velocity (ft/sec): UAL ESTIMATE -/ Length (m)	Anta Fen	vcep	Max	
☐ Flow Downstrea ☐ Riffle ☐ Run M Pool ☐ Flow	Present?	Dimensions: *- Vxs Width (m) 8.5 □ No	Velocity (ft/sec): OAL ESTIMATE -/ Length (m)	Anta Fen	vcep	Max	Depth (m)
☐ Flow Downstrea ☐ Riffle ☐ Run ☑ Pool ☐ Flow strate*: (Present?	Dimensions: *- Vxs Width (m) 8.5 □ No	Velocity (ft/sec): Length (m) Velocity (ft/sec):	Anta Fen	vcep	Max	Depth (m)

☐ Chemical

☐ Fine sediments

☐ Gray

☐ Foam

None None

☐ Milky

□ None

None

☐ Other:

☐ Other:

Other:

☐ Other:

SAND

Water Characteristics*: (Mark all that apply.)

☐ Sewage

M Clear

☐ Sludge

□ Oil

☐ Musky

☐ Green

☐ Solids

☐ Scum

Odor:

Color:

Bottom Deposit:

Surface Deposit:

^{*}This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

WBID	#	1591	Site #	83	Ì

Date: 07 / 16 / 2006

Data Sheet B - Site Characterization – 3 of 3

comments: Please describe any departures from protocol and the reasons for departure (e.g., unanticipated unique local Nove	ı

WBID # 1591	Site #	831
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Date: 07/16/2006

NONE

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C - Interviews

	w long have you	ı lived here?				
2. Have you pe	ersonally used the	nis water body for r that apply:	ecreation since 1975?	☐ Yes ☐ No		
☐ Swimming	☐ Skin diving ☐ SCUBA diving ☐ Tubing ☐ Water skiing					
☐ Wind surfing	☐ Kayaking ☐ Boating ☐ Wading ☐ Rafting					
☐ Hunting						
		1 time per year – p	lease describe:			
Have you obe	erved others		_			
3. Have you obs If so, plea	served others us se check ALL t	ing this water body hat apply:	for recreation since 1	975? □ Yes □ No		
If so, plea ☐ Swimming	served others us se check ALL to Skin diving	ing this water body hat apply: □ SCUBA diving				
☐ Swimming ☐ Wind surfing	To the the transfer of the tra	Tat appry.	for recreation since 1 □ Tubing □ Wading	□ Water skiing		
☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing			
☐ Swimming ☐ Wind surfing ☐ Hunting	☐ Skin diving ☐ Kayaking ☐ Trapping ☐ have you obser ☐ More than ☐ 1 – 5 times	☐ SCUBA diving ☐ Boating ☐ Fishing rved it being used for times per year	☐ Tubing ☐ Wading ☐ None of the above or recreation?	☐ Water skiing ☐ Rafting		
☐ Swimming ☐ Wind surfing ☐ Hunting ☐ How often	☐ Skin diving ☐ Kayaking ☐ Trapping ☐ have you obser ☐ More than ☐ 1 − 5 times ☐ Less than 1	☐ SCUBA diving ☐ Boating ☐ Fishing rved it being used for times per year per year	☐ Tubing ☐ Wading ☐ None of the above or recreation?	☐ Water skiing ☐ Rafting		
☐ Swimming ☐ Wind surfing ☐ Hunting ☐ How often	☐ Skin diving ☐ Kayaking ☐ Trapping ☐ have you obser ☐ More than ☐ 1 − 5 times ☐ Less than 1	☐ SCUBA diving ☐ Boating ☐ Fishing rved it being used for times per year per year	☐ Tubing ☐ Wading ☐ None of the above or recreation?	☐ Water skiing ☐ Rafting		
☐ Swimming ☐ Wind surfing ☐ Hunting ☐ How often	☐ Skin diving ☐ Kayaking ☐ Trapping ☐ have you obser ☐ More than ☐ 1 − 5 times ☐ Less than 1	☐ SCUBA diving ☐ Boating ☐ Fishing rved it being used for times per year per year	☐ Tubing ☐ Wading ☐ None of the above or recreation?	☐ Water skiing ☐ Rafting		
☐ Swimming ☐ Wind surfing ☐ Hunting ☐ How often	☐ Skin diving ☐ Kayaking ☐ Trapping ☐ have you obser ☐ More than ☐ 1 − 5 times ☐ Less than 1	☐ SCUBA diving ☐ Boating ☐ Fishing rved it being used for times per year per year	☐ Tubing ☐ Wading ☐ None of the above or recreation?	☐ Water skiing ☐ Rafting		

WBID #__1511___ Site # __832___

Date: 07 / 16 / 2006

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization – 1 of 3

	37,27070	, , , , , , , , , , , , , , , , , , , ,	Arrival Time:			
Longitude (ddd.dddd)	091, 90378	A				
Photo Ids: Upstream:		A 66: 70.657. Downstream: 0660	0900			
			Other:	•		
(0658-PA7H	0661-AGA	ICULTURE			
rrative Description	of Location: (De	scribe access point to stream, ne				
AT MOUTE DD R	DAD CHOSSING.	serioe access point to stream, ne	arby roads, landmarks, etc.	.)		
rrounding Condition	ons*: (Mark all that r	promote or impede recreational t				
ns of interest.)	, p	, impede recreationary	ises. Attach photos of evid	ence or unusual		
☐ City/county parks	☐ Playgrounds	☐ MDC conservation lands	☐ Urban areas			
☐ Boating accesses	☐ State parks	☐ National forests	☐ Nature trails	Campgrounds		
☐ No trespass sign	☑ Fence	Steep slopes		☐ Stairs/walkway		
	LSEE PHOTO	0660	Steep slopes			
man Uses Observed	1*:					
☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing			
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Water skiing		
☐ Hunting	☐ Trapping	☐ Fighing		Rafting		
D 14	per of individuals recre	eating, frequency of use photo	None of the above	Other:		
Describe: (include numb				,		
Describe: (include numb						
Describe: (include numb		To 0658				
			☐ Livestock Watering			
lence of Human Us	e*:	□ Dock/platform	☐ Livestock Watering	□ RV / ATV Tracks		
lence of Human Us Roads	e*: Foot paths/prints		☐ Livestock Watering ☐ NPDES Discharge	☐ RV / ATV Tracks ☐ Fishing Tackle		
lence of Human Us ☑ Roads ☑ Rope swings	e*: Foot paths/prints	□ Dock/platform				
dence of Human Us ✓ Roads ☐ Rope swings ☐ Other: Ces of Pollution: (e.	e*: \(\sigma \) Foot paths/prints \(\sigma \) Camping Sites g., trash dumping, tire	□ Dock/platform □ Fire pit/ring				
lence of Human Us ☑ Roads ☑ Rope swings ☑ Other:	e*: \(\sigma \) Foot paths/prints \(\sigma \) Camping Sites g., trash dumping, tire	□ Dock/platform				
dence of Human Us ✓ Roads ☐ Rope swings ☐ Other: Ces of Pollution: (e.	e*: \(\sigma \) Foot paths/prints \(\sigma \) Camping Sites g., trash dumping, tire	□ Dock/platform □ Fire pit/ring				

John Malet

Max Depth (m)

0.35

Max Depth (m)

0.65

% Bedrock

Avg. Depth (m)

Avg. Depth (m)

	16 / 20	06_		
		Data	Sheet B - Site Ch	aracterization
eam Mor Upstream	View Phys	sical Dim	ensions: 0-31, 0.	35, 0.31m
	Distance access po	e from	Width (m)	Length (m)
☐ Riffle				
□ Run				
☑ Pool	12		4.2	12

4.6

5

☑ No

Aquatic Vegetation*: (Note amount of vegetation or algal growth at the assessment site.) ALGAE ON DOWNSTAGAN SECTION, 45 % OF STREAM AFFECTED.

☐ Musky

☐ Green

□ Solids

Scum

% Gravel

access point (m)

25

Substrate*: (These values should add up to 100%.)

Water Characteristics*: (Mark all that apply.)

☐ Sewage

☑ Clear

☐ Sludge

□ Oil

30

☐ Yes

Present?

% Cobble

☐ Riffle □ Run Pool

☐ Flow

Odor:

Color:

Bottom Deposit:

Surface Deposit:

MOther: ALGAG □ None *This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that affect another use.

☐ Chemical

Fine sediments

☐ Gray

☐ Foam

% Sand

Length (m)

25

30

% Silt

None None

· Milky

□ None

35

% Mud/Clay

☐ Other:

☐ Other:

Other: SAND

Velocity (ft/sec):

WBID	#_	1.	591		_Site#	837	
Date	۲۸	. /	1.6	/	2001		

Data Sheet B - Site Characterization - 3 of 3

Comments: Please describe any departures from protocol and the reasons for departure (e.g., unanticipated unique local conditions, problems in measuring, site relocation).	ĺ
NONE	

WBID	#	15	91	Site	#	832

Date: 07 / 16 / 2006

NONE

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet C – Interviews (Make additional copies as necessary for multiple interviews)				
 Do you live in the area? ☐ Yes ☐ No If so, how long have you lived here? 				
2. Have you personally used this water body for recreation since 1975? ☐ Yes ☐ No If so, please check ALL that apply:				
☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	Other:
How often do you use it for recreation? G More than 5 times per year G 1 - 5 times per year Less than 1 time per year - please describe: 3. Have you observed others using this year - 1 - 5.				
3. Have you observed others using this water body for recreation since 1975? ☐ Yes ☐ No If so, please check ALL that apply:				
☐ Swimming	☐ Skin diving	☐ SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	☐ Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishing	☐ None of the above	☐ Other:
How often have you observed it being used for recreation? G More than 5 times per year G 1-5 times per year G Less than 1 time per year – please describe:				
4. Additional Con	mments:			
Contact Information (if willing to provide): Name: Address:				

Telephone #:

WBID# 1591



Site# 830 Photo ID# 650, Upstream



Site# 830 Photo ID# 652, Path / agriculture



Site# 830 Photo ID# 651, Downstream



Site# 830 Photo ID# 653, Dairy farm

WBID# 1591



Site# 831 Photo ID# 654, Upstream



Site# 831 Photo ID# 656, Fence



Site# 831 Photo ID# 655, Downstream



Site# 832 Photo ID# 659, Upstream

WBID# 1591



Site# 832 Photo ID# 660, Downstream



Site# 832 Photo ID# 661, Agriculture



Site# 832 Photo ID# 658, path